

### **RAW SEQUENCE LISTING**

The Biotechnology Systems Branch of the Scientific and Technical Information Center (STIC) no errors detected.

Application Serial Number: 101532,395
Source: 101532,395
Date Processed by STIC: 101532,395

# ENTERED



PCT

RAW SEQUENCE LISTING DATE: 04/29/2005 PATENT APPLICATION: US/10/532,395 TIME: 17:00:36

Input Set : A:\PTO.FG.txt

```
3 <110> APPLICANT: University of Pennsylvania
             Avarbock, David
      5
             Rubin, Harvey
              Avarbock, Andrew
      8 <120> TITLE OF INVENTION: Fragments and Activity of Rel protein in M. Tuberculosis and
other uses
      9
              thereof
W--> 10 <130> FILE REFERENCE: UPFT0002-100
C--> 12 <140> CURRENT APPLICATION NUMBER: US/10/532,395
C--> 12 <141> CURRENT FILING DATE: 2005-04-22
     12 <150> PRIOR APPLICATION NUMBER: PCT/US03/33692
     13 <151> PRIOR FILING DATE: 2003-10-22
     15 <150> PRIOR APPLICATION NUMBER: US 60/420,129
     16 <151> PRIOR FILING DATE: 2002-10-22
     18 <160> NUMBER OF SEQ ID NOS: 20
     20 <170> SOFTWARE: PatentIn version 3.2
     22 <210> SEQ ID NO: 1
     23 <211> LENGTH: 21
     24 <212> TYPE: DNA
     25 <213> ORGANISM: Mycobacterium tuberculosis
     27 <400> SEQUENCE: 1
     28 gatataccat gggcagcagc c
                                                                                21
     31 <210> SEQ ID NO: 2
     32 <211> LENGTH: 34
     33 <212> TYPE: DNA
     34 <213> ORGANISM: Mycobacterium tuberculosis
     36 <400> SEQUENCE: 2
     37 gattgatcca tatgggttac accetggagg cgtt
                                                                               34
     40 <210> SEQ ID NO: 3
     41 <211> LENGTH: 35
     42 <212> TYPE: DNA
     43 <213> ORGANISM: Mycobacterium tuberculosis
     45 <400> SEQUENCE: 3
                                                                               35
     46 gatcatggat ccctagtcgt agcgcaatga ttcca
     49 <210> SEQ ID NO: 4
     50 <211> LENGTH: 35
    51 <212> TYPE: DNA
     52 <213> ORGANISM: Mycobacterium tuberculosis
     54 <400> SEQUENCE: 4
                                                                               35
     55 gatcatggat ccctactcct cgtacttctt gggat
    58 <210> SEQ ID NO: 5
    59 <211> LENGTH: 36
     60 <212> TYPE: DNA
     61 <213> ORGANISM: Mycobacterium tuberculosis
```





DATE: 04/29/2005

TIME: 17:00:36

#### RAW SEQUENCE LISTING

PATENT APPLICATION: US/10/532,395

Input Set : A:\PTO.FG.txt

63 <400> SEQUENCE: 5	
64 gatcatggat ccctacatgc ccagccgatg cgccag	36
67 <210> SEQ ID NO: 6	
68 <211> LENGTH: 36 69 <212> TYPE: DNA	
70 <213> ORGANISM: Mycobacterium tuberculosis	
72 <400> SEQUENCE: 6	
73 gatcatggat ccctacatgc ccagecgatg cgccag	36
76 <210> SEQ ID NO: 7	
77 <211> LENGTH: 738	
78 <212> TYPE: PRT	
79 <213> ORGANISM: Mycobacterium tuberculosis	
81 <400> SEQUENCE: 7	
83 Met Thr Ala Gln Arg Ser Thr Thr Asn Pro Val Leu Glu Pro Leu Val	
84 1 5 10 15	
87 Ala Val His Arg Glu Ile Tyr Pro Lys Ala Asp Leu Ser Ile Leu Gln	
88 20 25 30	
91 Arg Ala Tyr Glu Val Ala Asp Gln Arg His Ala Ser Gln Leu Arg Gln 92 35 40 45	
95 Ser Gly Asp Pro Tyr Ile Thr His Pro Leu Ala Val Ala Asn Ile Leu	
96 50 55 60	
99 Ala Glu Leu Gly Met Asp Thr Thr Leu Val Ala Ala Leu Leu His	
100 65 70 75 80	
103 Asp Thr Val Glu Asp Thr Gly Tyr Thr Leu Glu Ala Leu Thr Glu Glu	
104 85 90 95	
107 Phe Gly Glu Glu Val Gly His Leu Val Asp Gly Val Thr Lys Leu Asp	
108 100 105 110	
111 Arg Val Val Leu Gly Ser Ala Ala Glu Gly Glu Thr Ile Arg Lys Met	
112 115 120 125	
115 Ile Thr Ala Met Ala Arg Asp Pro Arg Val Leu Val Ile Lys Val Ala	
116 130 135 140	
119 Asp Arg Leu His Asn Met Arg Thr Met Arg Phe Leu Pro Pro Glu Lys 120 145 150 155 160	
123 Gln Ala Arg Lys Ala Arg Glu Thr Leu Glu Val Ile Ala Pro Leu Ala	
124 165 170 175	
127 His Arg Leu Gly Met Ala Ser Val Lys Trp Glu Leu Glu Asp Leu Ser	
128 180 185 190	
131 Phe Ala Ile Leu His Pro Lys Lys Tyr Glu Glu Ile Val Arg Leu Val	
132 195 200 205	
135 Ala Gly Arg Ala Pro Ser Arg Asp Thr Tyr Leu Ala Lys Val Arg Ala	
136 210 215 220	
139 Glu Ile Val Asn Thr Leu Thr Ala Ser Lys Ile Lys Ala Thr Val Glu	
140 225 230 235 240	
143 Gly Arg Pro Lys His Tyr Trp Ser Ile Tyr Gln Lys Met Ile Val Lys	
144 245 250 255	
147 Gly Arg Asp Phe Asp Asp Ile His Asp Leu Val Gly Val Arg Ile Leu	
148 260 265 270	
151 Cys Asp Glu Ile Arg Asp Cys Tyr Ala Ala Val Gly Val Val His Ser	
152 275 280 285	

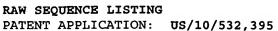


RAW SEQUENCE LISTING DATE: 04/29/2005
PATENT APPLICATION: US/10/532,395 TIME: 17:00:36

Input Set : A:\PTO.FG.txt

155	Leu	Trp	Gln	Pro	Met	Ala	Gly	Arg	Phe	Lys	Asp	Tyr	Ile	Ala	Gln	Pro
156		290					295					300				
	_	Tyr	Gly	Val	Tyr	Gln	Ser	Leu	His	Thr		Val	Val	Gly	Pro	
	305	_	_	_	~-3	310	~7.		_	m).	315			•••		320
	GIY	Lys	Pro	Leu		Val	GIn	He	Arg		Arg	Asp	Met	His		Thr
164	Δla	Glu	Тиг	Glv	325	Ala	Δls	Hic	Trn	330	ጥኒም	Lvc	Glu	Δla	335	Glv
168	ніа	Giu	TYL	340	116	Ата	Ата	птэ	345	Arg	TYL	цуз	Giu	350	пуs	GIY
	Arq	Asn	Glv		Leu	His	Pro	His		Ala	Ala	Glu	Ile		qaA	Met
172			355					360					365	-	-	
175	Ala	Trp	Met	Arg	Gln	Leu	Leu	Asp	Trp	Gln	Arg	Glu	Ala	Ala	Asp	Pro
176		370					375					380				
	_	Glu	Phe	Leu	Glu	Ser	Leu	Arg	Tyr	Asp		Ala	Val	Gln	Glu	
	385		_,	_,	_	390	~3	_			395		_	<b></b> 1	~3	400
	Phe	Val	Phe	Thr		Lys	GLY	Asp	Val		Thr	Leu	Pro	Thr	_	Ser
184	Thr	Dro	370 ]	7.00	405	Ala	There	712	Val.	410	Th~	Glu.	7727	Gl v	415	λνα
188	1111	PIO	vai	420	PHE	AIA	ıyı	AIa	425	птъ	1111	Giu	vai	430	птэ	ALG
	Cvs	Tle	Glv		Ara	Val	Asn	Glv		Leu	Val	Ala	Leu		Ara	Lvs
192	O <sub>I</sub> D		435		9			440	9				445		9	-1-
	Leu	Glu	Asn	Gly	Glu	Val	Val		Val	Phe	Thr	Ser	Lys	Ala	Pro	Asn
196		450		_			455					460	_			
199	Ala	Gly	Pro	Ser	Arg	Asp	Trp	Gln	Gln	Phe	Val	Val	Ser	Pro	Arg	Ala
	465					470					475					480
	Lys	Thr	Lys	Ile	_	Gln	Trp	Phe	Ala		Glu	Arg	Arg	Glu		Ala
204	_	<b>~</b> 3	m).	<b>~</b> 3	485	•				490	<b>~</b> 1	**- 7	•		495	a1
	Leu	GIu	Thr	_	Lуs	Asp	Ala	Met		Arg	GIu	vai	Arg	-	GIA	GIA
208	T ON	Dro	Leu	500	7 ~~	Leu	Ta I	λcn	505	G111	Car	Mot	λla	510 ala	t/al	Δla
212	пец	110	515	GIII	Arg	пец	vai	520	Gry	Giu	Jer	HEC	525	AIG	Vai	nia
	Ara	Glu		His	Tvr	Ala	Asp		Ser	Ala	Leu	Tvr		Ala	Ile	Glv
216	-	530			-1-		535					540				2
219	Glu	Gly	His	Val	Ser	Ala	Lys	His	Val	Val	Gln	Arg	Leu	Leu	Ala	Glu
220	545					550					555					560
223	Leu	Gly	Gly	Ile	Asp	Gln	Ala	Glu	Glu		Leu	Ala	Glu	Arg	Ser	Thr
224					565					570		_		_	575	
	Pro	Ala	Thr		Pro	Arg	Arg	Pro	-	Ser	Thr	Asp	Asp		Gly	Val
228		17- 7	D	580	77-	D	<b>a</b> 1	77-7	585	mla sa	T	T	77.	590	<b>C</b>	C
231		vai	PIO	GIA	Ата	Pro	_				_			_	Cys	Cys
						Asp									Glv	Glv
236		610	Vai	110	O <sub>1</sub> y	тър	615	110	1100	OLY	1110	620	****	y	O <sub>1</sub>	O. J
			Ser	Val	His	Arg		Asp	Cvs	Thr	Asn		Ala	Ser	Leu	Gln
	625					630		. <b>T</b> .	4		635			-		640
243	Gln	Gln	Ala	Glu	Arg	Ile	Ile	Glu	Val	Leu	Trp	Ala	Pro	Ser	Pro	Ser
244					645					650	=				655	
247	Ser	Val	Phe	Leu	Val	Ala	Ile	Gln		Glu	Ala	Leu	Asp	Arg	His	Arg
248				660					665					670		
251	Leu	Leu	Ser	Asp	Val	Thr	Arg	Ala	Leu	Ala	Asp	Glu	Lys	Val	Asn	Ile





DATE: 04/29/2005 TIME: 17:00:36

Input Set : A:\PTO.FG.txt

252			675					680					685			
255	Leu	Ser	Ala	Ser	Val	Thr	Thr	Ser	Gly	Asp	Arq	Val		Ile	Ser	Arq
256		690					695		-	-	•	700				•
259	Phe	Thr	Phe	Glu	Met	Gly	Asp	Pro	Lys	His	Leu	Gly	His	Leu	Leu	Asn
	705					710	•		•		715	•				720
263	Ala	Val	Arq	Asn	Val	Glu	Gly	Val	Tyr	Asp	Val	Tyr	Arq	Val	Thr	
264					725		•		•	730		•	,		735	
267	Ala	Ala														
271	<210	)> SI	EQ II	ON C	: 8											
			- ENGTI													
			YPE:													
274	<213	3 > OI	RGAN:	ISM:	Мус	bact	eri	ım tı	ubero	culos	sis					
			EQUE		_											
					Arg	Ser	Thr	Thr	Asn	Pro	Val	Leu	Glu	Pro	Leu	Val
279					5					10					15	
		Val	His	Ara	Glu	Ile	Tvr	Pro	Lvs		Asp	Leu	Ser	Ile		Gln
283				20			- 2 -		25					30		
	Ara	Ala	Tvr		Val	Ala	Asp	Gln		His	Ala	Ser	Gln			Gln
287	5		35		. •			40	3				45		5	
	Ser	Glv	Asp	Pro	Tyr	Ile	Thr	His	Pro	Leu	Ala	Val	Ala	Asn	Ile	Leu
291		50	<b>F</b>		-1-		55					60				
	Ala		Leu	Glv	Met	Asp	Thr	Thr	Thr	Leu	Val		Ala	Leu	Leu	His
295						70					75					80
		Thr	Val	Glu	Asp	Thr	Glv	Tvr	Thr	Leu		Ala	Leu	Thr	Glu	
299					85		2	- 4 -		90					95	
	Phe	Glv	Glu	Glu	Val	Glv	His	Leu	Val		Glv	Val	Thr	Lvs	Leu	Asp
303				100		4			105		2			110		
	Arq	Val	Val		Gly	Ser	Ala	Ala	Glu	Glv	Glu	Thr	Ile	Ara	Lvs	Met
307			115					120		- 4			125		- 4	
310	Ile	Thr	Ala	Met	Ala	Arq	Asp	Pro	Arq	Val	Leu	Val	Ile	Lys	Val	Ala
311		130					135					140		•		
314	Asp	Arq	Leu	His	Asn'	Met	Arq	Thr	Met	Arq	Phe	Leu	Pro	Pro	Glu	Lys
315	_	_				150	_			_	155					160
318	Gln	Ala	Arg	Lys	Ala	Arg	Glu	Thr	Leu	Glu	Val	Ile	Ala	Pro	Leu	Ala
319			_	_	165					170					175	
322	His	Arg	Leu	Gly	Met	Ala	Ser	Val	Lys	Trp	Glu	Leu	Glu	Asp	Leu	Ser
323				180					185	_				190		
326	Phe	Ala	Ile	Leu	His	Pro	Lys	Lys	Tyr	Glu	Glu	Ile	Val	Arg	Leu	Val
327			195				-	200	-				205			
330	Ala	Gly	Arg	Ala	Pro	Ser	Arg	Asp	Thr	Tyr	Leu	Ala	Lys	Val	Arg	Ala
331		210					215	_		7		220	Ī		_	
334	Glu	Ile	Val	Asn	Thr	Leu	Thr	Ala	Ser	Lys	Ile	Lys	Ala	Thr	Val	Glu
335						230				_	235	-				240
338	Gly	Arg	Pro	Lys	His	Tyr	Trp	Ser	Ile	Tyr	Gln	Lys	Met	Ile	Val	Lys
339	_	_		_	245	_	_			250		•			255	_
342	Gly	Arg	Asp	Phe	Asp	Asp	Ile	His	Asp	Leu	Val	Gly	Val	Arg	Ile	Leu
343	_		-	260	_	_			265			_		270		
346	Cys	Asp	Glu	Ile	Arg	Asp	Cys	Tyr	Ala	Ala	Val	Gly	Val	Val	His	Ser
347			275			_	•	280				•	285			





## RAW SEQUENCE LISTING DATE: 04/29/2005 PATENT APPLICATION: US/10/532,395 TIME: 17:00:36

Input Set : A:\PTO.FG.txt

351	Leu	Trp 290	Gln	Pro	Met	Ala	Gly 295	Arg	Phe	Lys	Asp	Tyr 300	Ile	Ala	Gln	Pro
	Arg 305	Tyr	Gly	Val	Tyr	Gln 310	Ser	Leu	His	Thr	Thr 315	Val	Val	Gly	Pro	Glu 320
358 359	Gly	Lys	Pro	Leu	Glu 325	Val	Gln	Ile	Arg	Thr 330	Arg	Asp	Met	His	Arg 335	Thr
362 363	Ala	Glu	Tyr	Gly 340	Ile	Ala	Ala	His	Trp 345	Arg	Tyr	Lys	Glu	Ala 350	Lys	Gly
366 367	Arg	Asn	Gly 355	Val	Leu	His	Pro	His 360	Ala	Ala	Ala	Glu	Ile 365	Asp	Asp	Met
370 371	Ala	Trp 370	Met	Arg	Gln	Leu	Leu 375	Asp	Trp	Gln	Arg	Glu 380	Ala	Ala	Asp	Pro
	Gly 385	Glu	Phe	Leu	Glu	Ser 390	Leu	Arg	Tyr	Asp	Leu 395	Ala	Val	Gln	Glu	Ile 400
378 379	Phe	Val	Phe	Thr	Pro 405	Lys	Gly	Asp	Val	Ile 410	Thr	Leu	Pro	Thr	Gly 415	Ser
382 383	Thr	Pro	Val	Asp 420	Phe	Ala	Tyr	Ala	Val 425	His	Thr	Glu	Val	Gly 430	His	Arg
386 387	Cys	Ile	Gly 435	Ala	Arg	Val	Asn	Gly 440	Arg	Leu	Val	Ala	Leu 445	Glu	Arg	Lys
390 391	Leu	Glu 450														
394	<210	)> SI	EQ II	ON C	: 9											
395	<21	1> L1	ENGTI	H: 39	94											
396	<212	2> T	YPE:	PRT												
	<213				-	obact	eri	ım tı	ıber	culos	sis					
399	<400	)> SI	EQUE	NCE:	9											
399 401 402	<400 Met 1	0> SI Thr	EQUE1 Ala	NCE: Gln	9 Arg 5	Ser	Thr	Thr	Asn	Pro	Val				15	Val
399 401 402 405 406	<400 Met 1 Ala	0> SI Thr Val	EQUE Ala His	NCE: Gln Arg 20	9 Arg 5 Glu	Ser Ile	Thr Tyr	Thr Pro	Asn Lys 25	Pro 10 Ala	Val Asp	Leu	Ser	Ile 30	15 Leu	Gln
399 401 402 405 406 409 410	<400 Met 1 Ala Arg	O> SI Thr Val Ala	EQUENT Ala His Tyr 35	NCE: Gln Arg 20 Glu	9 Arg 5 Glu Val	Ser Ile Ala	Thr Tyr Asp	Thr Pro Gln 40	Asn Lys 25 Arg	Pro 10 Ala His	Val Asp Ala	Leu Ser	Ser Gln 45	Ile 30 Leu	15 Leu Arg	Gln Gln
399 401 402 405 406 409 410 413 414	<400 Met 1 Ala Arg	O> SI Thr Val Ala Gly 50	EQUENT Ala His Tyr 35 Asp	NCE: Gln Arg 20 Glu Pro	9 Arg 5 Glu Val Tyr	Ser Ile Ala Ile	Thr Tyr Asp Thr 55	Thr Pro Gln 40 His	Asn Lys 25 Arg Pro	Pro 10 Ala His Leu	Val Asp Ala Ala	Leu Ser Val 60	Ser Gln 45 Ala	Ile 30 Leu Asn	15 Leu Arg Ile	Gln Gln Leu
399 401 402 405 406 409 410 413 414 417 418	<400 Met 1 Ala Arg Ser Ala 65	O> SI Thr Val Ala Gly 50 Glu	EQUENT Ala His Tyr 35 Asp	Arg 20 Glu Pro	9 Arg 5 Glu Val Tyr Met	Ser Ile Ala Ile Asp 70	Thr Tyr Asp Thr 55 Thr	Thr Pro Gln 40 His	Asn Lys 25 Arg Pro	Pro 10 Ala His Leu	Val Asp Ala Ala Val 75	Leu Ser Val 60 Ala	Ser Gln 45 Ala	Ile 30 Leu Asn Leu	15 Leu Arg Ile Leu	Gln Gln Leu His 80
399 401 402 405 406 410 413 414 417 418 421 422	<400 Met 1 Ala Arg Ser Ala 65 Asp	O> SI Thr Val Ala Gly 50 Glu	EQUEI Ala His Tyr 35 Asp Leu Val	Arg 20 Glu Pro Gly Glu	9 Arg 5 Glu Val Tyr Met Asp 85	Ser Ile Ala Ile Asp 70 Thr	Thr Tyr Asp Thr 55 Thr Gly	Thr Pro Gln 40 His Thr	Asn Lys 25 Arg Pro Thr	Pro 10 Ala His Leu Leu	Val Asp Ala Ala Val 75 Glu	Leu Ser Val 60 Ala	Ser Gln 45 Ala Ala Leu	Ile 30 Leu Asn Leu Thr	15 Leu Arg Ile Leu Glu 95	Gln Gln Leu His 80 Glu
399 401 402 405 406 409 410 413 414 417 418 421 422 425 426	<400 Met 1 Ala Arg Ser Ala 65 Asp	O> SI Thr Val Ala Gly 50 Glu Thr	EQUEI Ala His Tyr 35 Asp Leu Val	Arg 20 Glu Pro Gly Glu Glu Glu	9 Arg 5 Glu Val Tyr Met Asp 85 Val	Ser Ile Ala Ile Asp 70 Thr	Thr Tyr Asp Thr 55 Thr Gly His	Thr Pro Gln 40 His Thr Tyr Leu	Asn Lys 25 Arg Pro Thr Thr Val 105	Pro 10 Ala His Leu Leu 90 Asp	Val Asp Ala Ala Val 75 Glu Gly	Leu Ser Val 60 Ala Ala Val	Ser Gln 45 Ala Ala Leu Thr	Ile 30 Leu Asn Leu Thr	15 Leu Arg Ile Leu Glu 95 Leu	Gln Gln Leu His 80 Glu Asp
399 401 402 405 406 409 410 413 414 417 418 421 422 425 426 429 430	<400 Met 1 Ala Arg Ser Ala 65 Asp Phe Arg	O> SI Thr Val Ala Gly 50 Glu Thr Gly Val	EQUENT Ala His Tyr 35 Asp Leu Val Glu Val 115	Arg 20 Glu Pro Gly Glu Glu 100 Leu	9 Arg 5 Glu Val Tyr Met Asp 85 Val	Ser Ile Ala Ile Asp 70 Thr Gly Ser	Thr Tyr Asp Thr 55 Thr Gly His	Thr Pro Gln 40 His Thr Tyr Leu Ala 120	Asn Lys 25 Arg Pro Thr Val 105 Glu	Pro 10 Ala His Leu Leu 90 Asp	Val Asp Ala Ala Val 75 Glu Gly Glu	Leu Ser Val 60 Ala Ala Val	Ser Gln 45 Ala Ala Leu Thr Ile 125	Ile 30 Leu Asn Leu Thr Lys 110 Arg	15 Leu Arg Ile Leu Glu 95 Leu	Gln Gln Leu His 80 Glu Asp Met
399 401 402 405 406 409 410 413 414 417 418 421 425 426 429 430 433 434	<400 Met 1 Ala Arg Ser Ala 65 Asp Phe Arg	O> SI Thr Val Ala Gly 50 Glu Thr Gly Val Thr	EQUENT Ala His Tyr 35 Asp Leu Val Glu Val Ala	Arg 20 Glu Pro Gly Glu 100 Leu Met	9 Arg 5 Glu Val Tyr Met Asp 85 Val Gly	Ser Ile Ala Ile Asp 70 Thr Gly Ser Arg	Thr Tyr Asp Thr 55 Thr Gly His Ala Asp 135	Thr Pro Gln 40 His Thr Tyr Leu Ala 120 Pro	Asn Lys 25 Arg Pro Thr Thr Val 105 Glu Arg	Pro 10 Ala His Leu Leu 90 Asp Gly Val	Val Asp Ala Ala Val 75 Glu Gly Glu Leu	Leu Ser Val 60 Ala Ala Val Thr Val 140	Ser Gln 45 Ala Ala Leu Thr Ile 125 Ile	Ile 30 Leu Asn Leu Thr Lys 110 Arg	15 Leu Arg Ile Leu Glu 95 Leu Lys Val	Gln Gln Leu His 80 Glu Asp Met Ala
399 401 402 405 406 409 410 413 414 417 418 421 425 426 429 430 433 434 437 438	<400 Met 1 Ala Arg Ser Ala 65 Asp Phe Arg	O> SI Thr Val Ala Gly 50 Glu Thr Gly Val Thr 130 Arg	EQUENT Ala His Tyr 35 Asp Leu Val Glu Val 115 Ala Leu	Arg 20 Glu Pro Gly Glu 100 Leu Met	9 Arg 5 Glu Val Tyr Met Asp 85 Val Gly Ala Asn	Ser Ile Ala Ile Asp 70 Thr Gly Ser Arg Met	Thr Tyr Asp Thr 55 Thr Gly His Ala Asp 135 Arg	Thr Pro Gln 40 His Thr Tyr Leu Ala 120 Pro Thr	Asn Lys 25 Arg Pro Thr Thr Val 105 Glu Arg Met	Pro 10 Ala His Leu Leu 90 Asp Gly Val	Val Asp Ala Ala Val 75 Glu Gly Glu Leu Phe 155	Leu Ser Val 60 Ala Ala Val Thr Val 140 Leu	Ser Gln 45 Ala Ala Leu Thr Ile 125 Ile Pro	Ile 30 Leu Asn Leu Thr Lys 110 Arg Lys Pro	15 Leu Arg Ile Leu Glu 95 Leu Lys Val	Gln Gln Leu His 80 Glu Asp Met Ala Lys 160





#### VERIFICATION SUMMARY

PATENT APPLICATION: US/10/532,395

TIME: 17:00:37

DATE: 04/29/2005

Input Set : A:\PTO.FG.txt

Output Set: N:\CRF4\04292005\J532395.raw

L:10 M:283 W: Missing Blank Line separator, <130> field identifier

L:12 M:270 C: Current Application Number differs, Replaced Current Application No

L:12 M:271 C: Current Filing Date differs, Replaced Current Filing Date